

AWG-SWG

ENAMELED AL WINDING WIRES

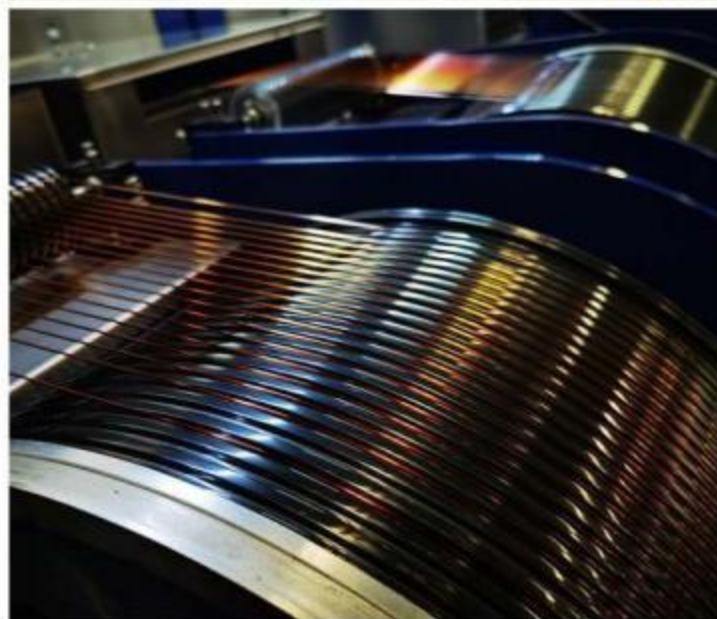


high grade insulation

AWG - SWG specifications Enameled AL Wire
For electrical transformer

LNPU
ZHENGZHOU LP INDUSTRY CO.,LTD

HIGH GRADE INSULATION



Zhengzhou LP Industry CO.,LTD is a leading enameled aluminum wire manufacturer in China, which is mainly producing the enameled round aluminum wire, flat aluminum wire and aluminum coils.



ENAMELED ALUMINUM ROUND WIRE

PROPERTIES	ALUMINUM
STANDARD	IEC 60317-0-3 IEC 60317-25 NEMA MW 73-A, MW 35-A
OVERCOAT	INSULATION COATINGS MODIFIED POLYESTER (IMIDE) WITH POLYAMIDE-IMIDE
AVAILABILITY	0.06 – 10mm
MECHANICAL PROPERTIES FOR	3,00mm
ELONGATION	>24%
ADHERENCE-FLEXIBILITY	EXCELLENT
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BREAKDOWN VOLTAGE	GR 1 >3,0 kV GR 2 >5,0 kV
THERMAL PROPERTIES	
TEMPERATURE INDEX	180, 200, 220, 240
CHEMICAL PROPERTIES	
SOLVENT TEST	5H
RESISTANCE TO TRANSFORMER OIL	VERY GOOD

Application

Electric motor / generator.
Dry or oil-immersed transformers.

INSULATION CLASSIFICATIONS ACCORDING TO IEC

Class	Temperature	
	° C	° F
E	120	248
B	130	266
F	155	311
H	180	356
C	200	392
C+	220	428
HC	240	464

The insulating materials are subdivided according to IEC standards into insulating classes showing the corresponding maximum working temperature that must not be exceeded at any point of the winding.

The table above outlines the recognized insulation classifications.

Insulation Building

Single coated

Heavy/double coated





LP Industry can produce custom round, square and rectangular wire in a well equipped, fully permitted manufacturing facility. Products offered include film insulated wire conforming to NEMA MW 1000 and IEC60317 in temperature classes 105 °C to 240°C, from single through double film builds. Low minimums, quick deliveries and top quality are our standards.

Entering dies are used to apply smooth, concentric film coats to wires sizes 4mm and heavier. This is a very important process of enameling; during this phase the wire is charged with enamel through an enameling die equipped with a calibrated slot that pour the quantity of enamel on the wire necessary to get a correct polymerization.



Bare wire annealing. Annealing is a process at high temperature which aim to soften the copper and make it more malleable.



Coils winding. Once is ended the wire enameling, the wire is assembled in particular spools to be later on weighed and sold.

